

BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE		Number: LS-SDL-0036	Revision: A
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Subject: DUV-FEL Operation Check List			
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*Document must contain approved signatures for validity

DUV-FEL Operation Check List

Exp. Title:		
Operator:		
Date:	Start Time:	Beam Time:
Machine Warm Up:	<input type="checkbox"/> Linac Water <input type="checkbox"/> Gun Water <input type="checkbox"/> Gun Heater Tape <input type="checkbox"/> AC/AUXPower <input type="checkbox"/> Kly. Filament <input type="checkbox"/> Gun Hutch Interlock <input type="checkbox"/> Laser Room Interlock:	
Radiation Monitoring Check:	<input type="checkbox"/> Chipmunk (three total)*: <input type="checkbox"/> Alarm Display	

* It is allowed if one is malfunction, must be fixed within 24 hrs.

Machine Operation

Vacuum Valves:	<input type="checkbox"/> Linac Tunnel Interlocked <input type="checkbox"/> Radiological Interlock test status current <input type="checkbox"/> Laser Interlock test status current	Linac Temp: Gun Temp:
Gun Temp:	Modulator Reset:	Modulator Protect:
Trigger:	Rep. Rate:	
Vacuum Record	Tank#1: W/G#1: Win A: Tank#2: W/G#2: Win B: Tank#3: W/G#3: Win C: Tank#4: Gun:	
Power Supplies	Sol. Magnet: Triplets (3): Chicane: Trim Chicane: Dipole magnet (check switch position): Trim power supplies: Seed Mirror position:	
HGHG Magnets	<input type="checkbox"/> NISUS water: <input type="checkbox"/> Four-wire Power Supplies: <input type="checkbox"/> Pancake Power Supplies: <input type="checkbox"/> Dispersion Magnet:	
Laser	Energy on Cathode: Diode from Gun Hutch: Profile from cam 27:	
Electron Beam	Gun Phase (deg.): Charge (pC): Gun Energy:	

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Machine Shutdown Check List

Time:	Operator:	Laser:
<input type="checkbox"/> Set all power to zero:	<input type="checkbox"/> Dipole off	<input type="checkbox"/> AUX/AC Power off
<input type="checkbox"/> Magnet Power Supplies off	<input type="checkbox"/> Kly. Filament to 50%: A. B. C.	<input type="checkbox"/> Gun Heater Tape off
<input type="checkbox"/> Gun Water (Fr/Sa/So):	<input type="checkbox"/> Vacuum Valves closed	<input type="checkbox"/> NISUS Power Supplies off
<input type="checkbox"/> Linac Water closed		

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